POND DESIGN DATA

Job Class _____ Soils _____ Hydro. Gr._____
Land Use _____ Trtmt. _____ Condition _____
Rainfall Dist. Type II or III DA _____ ac. W/S Slope _____ %
Slope Factor _____ Slope Interpolation factor (SIF) _____
CN _____ Rainfall (ps) _____ in. _____ yr. Vr = _____ in.
Vs = [(_____ ac. + _____ ac.) / 2] x _____ ft. = _____AF
Vs (in.) = [(Vs) _____ AF x 12]/(DA) _____ AC = _____ in.
Use Vs= _____ in. & Vr= _____ in. FR Fig. 1, READ TAB A OR B
(II) Qi(ps) = [Qpeak(ps)] _____ cfs x (SIF) _____ = _____ cfs
(III) Ia/P = _____; Qpeak(ps) = _____ cfs/ac/in
Qi(ps) = [Qpeak(ps) ___ x (Vr) ___ x (DA) ___ x (SIF) ____
Qi(ps) = _____ cfs
Qo(ps)=(TAB A or B) _____ x _____ cfs or ac. = _____ cfs
H= _____ ft. Pipe Size = _____ in. barrel; _____ in. riser
Rainfall (es) _____ in. _____ yr. R.O. (es) = _____ in.
(II) Qes = [Qpeak(es)] _____ cfs x (SIF) _____ = _____ cfs
(III) Ia/P = _____; Qpeak(es) = _____ cfs/ac/in
Qes = [Qpeak(es)]_____x [R.O.(es)]_____ x (DA)_____x (SIF)
Qes = _____ cfs
Qes(design) = (Qes) _____ - [Qi(ps)] _____ = _____ cfs
Erosion Resistant Soil: (yes or no) Cover _____
Cond. Stand _____ Height _____in. to _____ in. Slope _____%
Vel. _____ fps Retardance: Stab. _____ Capacity _____
Control-Section Length = _____ ft. q/ft.=_____
S/W BW = [Qes(design)] _____ / (q/ft.) _____ = _____ ft.
Use: BW =_____ ft. Hp = _____ ft. S/W SS = _____:1
Exit Slope Range: _____ to _____ Adequate _____
Embankment SS = _____:1 TW = _____ ft.
Freeboard = _____ ft. El Riser _____ El Emer S/W _____
El Top of Dam _____ Settlement _____ % Pond Use _____
Capacity = 0.4 x _____ ac. x _____ ft. = _____ AF
Barrel _____ ft. of _____ in. _____ Pipe
Riser _____ ft. of _____ in. _____ Pipe
Valve _____ in. _____ Collars _____ ft.x _____ ft.x _____ ft.
Trash Rack or Sleeve _____ in. x _____ ft.
Flotation = (B) _____ - (W) _____ x (H) _____ / 87.6 = _____ CF
Concrete (PAD) _____ CF + (ASC) _____ CF / 27 = _____ CY
Quantity of Fill _____ CY Veg. _____ ac.
Design By _____ Checked By _____